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RAW SEQUENCE LISTING

PATENT APPLICATION US/09/174,937

 DATE: 11/03/1998
 TIME: 15:26:44

Input Set: I174937.RAW

This Raw Listing contains the General Information
 Section and up to first 5 pages.

1 <110> APPLICANT: Khodadoust, Mehran
 2 <120> TITLE OF INVENTION: Isolated Proteins and Nucleic Acid Molecules Having
 3 Homology to NIP2 Proteins and Uses Thereof
 4 <130> FILE REFERENCE: mni061
 5 <140> CURRENT APPLICATION NUMBER: US/09/174,937
 6 <141> CURRENT FILING DATE: 1998-10-19
 7 <160> NUMBER OF SEQ ID NOS: 9
 8 <170> SOFTWARE: PatentIn Ver. 2.0
 9 <210> SEQ ID NO 1
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 12 <213> ORGANISM: Homo sapiens
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 19 gcaccccaacc caccctgca caaaagagct ggcgggcgct ggccacgtcg ccctgggtga 180
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 25 1 5 10
 26 gtg aag gag gaa tgg cag gac gaa gat ctt ccc agg cca ctc cca gaa 459
 27 Val Lys Glu Glu Trp Gln Asp Glu Asp Leu Pro Arg Pro Leu Pro Glu
 28 15 20 25 30
 29 gag acg ggg gtg gaa ctg ctt ggc agc ccg gtg gaa gac aca tcc tct 507
 30 Glu Thr Gly Val Glu Leu Leu Gly Ser Pro Val Glu Asp Thr Ser Ser
 31 35 40 45
 32 cct ccc aac acg cta aat ttc aac gga gcg cat cgt aag agg aag acg 555
 33 Pro Pro Asn Thr Leu Asn Phe Asn Gly Ala His Arg Lys Arg Lys Thr
 34 50 55 60
 35 ctg gtg gcc cca gag atc aac att tct ctg gat cag agt gag ggg tcc 603
 36 Leu Val Ala Pro Glu Ile Asn Ile Ser Leu Asp Gln Ser Glu Gly Ser
 37 65 70 75
 38 ctg ctg tcc gat gac ttc ttg gat acc cct gat gac ctg gat att aac 651
 39 Leu Leu Ser Asp Asp Phe Leu Asp Thr Pro Asp Asp Leu Asp Ile Asn
 40 80 85 90
 41 gtg gat gac atc gag acc ccc gat gag acc gac tcg ctg gag ttc ctg 699
 42 Val Asp Asp Ile Glu Thr Pro Asp Glu Thr Asp Ser Leu Glu Phe Leu
 43 95 100 105 110
 44 ggg aat ggc aac gaa ctg gag tgg gaa gac gac acc ccc gtg gcc acc 747

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| 47 | gcc aag aac atg ccc ggg gac agc gcg gat cta ttt ggg gac ggc acg | 795 |
| 48 | Ala Lys Asn Met Pro Gly Asp Ser Ala Asp Leu Phe Gly Asp Gly Thr | |
| 49 | 130 135 140 | |
| 50 | acg gag gac ggc agc gcc gcc aac ggg cgc ctg tgg cgg aca gtg atc | 843 |
| 51 | Thr Glu Asp Gly Ser Ala Ala Asn Gly Arg Leu Trp Arg Thr Val Ile | |
| 52 | 145 150 155 | |
| 53 | atc ggg gag caa gag cac cgt ata gac ctg cac atg atc cgg cct tac | 891 |
| 54 | Ile Gly Glu Gln Glu His Arg Ile Asp Leu His Met Ile Arg Pro Tyr | |
| 55 | 160 165 170 | |
| 56 | atg aaa gtg gtc acc cac gga ggg tac tac ggc gaa ggc ctc aac gcc | 939 |
| 57 | Met Lys Val Val Thr His Gly Gly Tyr Tyr Gly Glu Gly Leu Asn Ala | |
| 58 | 175 180 185 190 | |
| 59 | atc atc gtc ttc gca gcc tgc ttc ctt cca gac agc agc ctc ccc gac | 987 |
| 60 | Ile Ile Val Phe Ala Ala Cys Phe Leu Pro Asp Ser Ser Leu Pro Asp | |
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| 62 | tac cac tac atc atg gag aac ctc ttc ctg tac gtc atc agc agc tta | 1035 |
| 63 | Tyr His Tyr Ile Met Glu Asn Leu Phe Leu Tyr Val Ile Ser Ser Leu | |
| 64 | 210 215 220 | |
| 65 | gag ctc ctg gtg gct gag gac tac atg atc gtg tac ctg aac ggt gcc | 1083 |
| 66 | Glu Leu Leu Val Ala Glu Asp Tyr Met Ile Val Tyr Leu Asn Gly Ala | |
| 67 | 225 230 235 | |
| 68 | acg ccc cgg cgg agg atg cct gga atc ggc tgg ctg aag aag tgc tac | 1131 |
| 69 | Thr Pro Arg Arg Arg Met Pro Gly Ile Gly Trp Leu Lys Lys Cys Tyr | |
| 70 | 240 245 250 | |
| 71 | cag atg atc gac cgg agg ttg cgg aaa aac ctg aag tcc ttg atc atc | 1179 |
| 72 | Gln Met Ile Asp Arg Arg Leu Arg Lys Asn Leu Lys Ser Leu Ile Ile | |
| 73 | 255 260 265 270 | |
| 74 | gtc cac ccc tcg tgg ttc att cgg act gtg ctg gcc atc tct cgc cct | 1227 |
| 75 | Val His Pro Ser Trp Phe Ile Arg Thr Val Leu Ala Ile Ser Arg Pro | |
| 76 | 275 280 285 | |
| 77 | ttc atc agc gtc aag ttc atc aac aag atc cag tac gtg cac agc ttg | 1275 |
| 78 | Phe Ile Ser Val Lys Phe Ile Asn Lys Ile Gln Tyr Val His Ser Leu | |
| 79 | 290 295 300 | |
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| 82 | 305 310 315 | |
| 83 | tgc gtc ctg caa tac gaa gag gaa aga ctg aag gcc agg agg gag agc | 1371 |
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| 85 | 320 325 330 | |
| 86 | gcg agg ccc cag ccg gag ttt gtg ctg ccc agg tct gaa gag aag cca | 1419 |
| 87 | Ala Arg Pro Gln Pro Glu Phe Val Leu Pro Arg Ser Glu Glu Lys Pro | |
| 88 | 335 340 345 350 | |
| 89 | gag gtg gca cca gtg gaa aac agg tct gct ctg gtc tca gaa gat cag | 1467 |
| 90 | Glu Val Ala Pro Val Glu Asn Arg Ser Ala Leu Val Ser Glu Asp Gln | |
| 91 | 355 360 365 | |
| 92 | gaa aca agc atg tcc tgaggcgacg tgagcataac aaaggacatg gaagaagatt | 1522 |
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129      20              25              30
130      Gly Val Glu Leu Leu Gly Ser Pro Val Glu Asp Thr Ser Pro Pro
131      35              40              45
132      Asn Thr Leu Asn Phe Asn Gly Ala His Arg Lys Arg Lys Thr Leu Val
133      50              55              60
134      Ala Pro Glu Ile Asn Ile Ser Leu Asp Gln Ser Glu Gly Ser Leu Leu
135      65              70              75              80
136      Ser Asp Asp Phe Leu Asp Thr Pro Asp Asp Leu Asp Ile Asn Val Asp
137      85              90              95
138      Asp Ile Glu Thr Pro Asp Glu Thr Asp Ser Leu Glu Phe Leu Gly Asn
139      100             105             110
140      Gly Asn Glu Leu Glu Trp Glu Asp Asp Thr Pro Val Ala Thr Ala Lys
141      115             120             125
142      Asn Met Pro Gly Asp Ser Ala Asp Leu Phe Gly Asp Gly Thr Thr Glu
143      130             135             140
144      Asp Gly Ser Ala Ala Asn Gly Arg Leu Trp Arg Thr Val Ile Ile Gly

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149              180              185              190
150      Val Phe Ala Ala Cys Phe Leu Pro Asp Ser Ser Leu Pro Asp Tyr His
151              195              200              205
152      Tyr Ile Met Glu Asn Leu Phe Leu Tyr Val Ile Ser Ser Leu Glu Leu
153              210              215              220
154      Leu Val Ala Glu Asp Tyr Met Ile Val Tyr Leu Asn Gly Ala Thr Pro
155      225              230              235              240
156      Arg Arg Arg Met Pro Gly Ile Gly Trp Leu Lys Lys Cys Tyr Gln Met
157              245              250              255
158      Ile Asp Arg Arg Leu Arg Lys Asn Leu Lys Ser Leu Ile Ile Val His
159              260              265              270
160      Pro Ser Trp Phe Ile Arg Thr Val Leu Ala Ile Ser Arg Pro Phe Ile
161              275              280              285
162      Ser Val Lys Phe Ile Asn Lys Ile Gln Tyr Val His Ser Leu Glu Asp
163              290              295              300
164      Leu Glu Gln Leu Ile Pro Met Glu His Val Gln Ile Pro Asp Cys Val
165      305              310              315              320
166      Leu Gln Tyr Glu Glu Glu Arg Leu Lys Ala Arg Arg Glu Ser Ala Arg
167              325              330              335
168      Pro Gln Pro Glu Phe Val Leu Pro Arg Ser Glu Glu Lys Pro Glu Val
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184              1              5              10              15
185      gag gaa tgg cag gac gaa gat ctt ccc agg cca ctc cca gaa gag acg      96
186      Glu Glu Trp Gln Asp Glu Asp Leu Pro Arg Pro Leu Pro Glu Glu Thr
187              20              25              30
188      ggg gtg gaa ctg ctt ggc agc ccg gtg gaa gac aca tcc tct cct ccc      144
189      Gly Val Glu Leu Leu Gly Ser Pro Val Glu Asp Thr Ser Ser Pro Pro
190              35              40              45
191      aac acg cta aat ttc aac gga gcg cat cgt aag agg aag acg ctg gtg      192
192      Asn Thr Leu Asn Phe Asn Gly Ala His Arg Lys Arg Lys Thr Leu Val
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| 198 | Ser Asp Asp Phe Leu Asp Thr Pro Asp Asp Leu Asp Ile Asn Val Asp | |
| 199 | 85 90 95 | |
| 200 | gac atc gag acc ccc gat gag acc gac tgc ctg gag ttc ctg ggg aat | 336 |
| 201 | Asp Ile Glu Thr Pro Asp Glu Thr Asp Ser Leu Glu Phe Leu Gly Asn | |
| 202 | 100 105 110 | |
| 203 | ggc aac gaa ctg gag tgg gaa gac gac acc ccc gtg gcc acc gcc aag | 384 |
| 204 | Gly Asn Glu Leu Glu Trp Glu Asp Asp Thr Pro Val Ala Thr Ala Lys | |
| 205 | 115 120 125 | |
| 206 | aac atg ccc ggg gac agc gcg gat cta ttt ggg gac ggc acg acg gag | 432 |
| 207 | Asn Met Pro Gly Asp Ser Ala Asp Leu Phe Gly Asp Gly Thr Thr Glu | |
| 208 | 130 135 140 | |
| 209 | gac ggc agc gcc gcc aac ggg cgc ctg tgg cgg aca gtg atc atc ggg | 480 |
| 210 | Asp Gly Ser Ala Ala Asn Gly Arg Leu Trp Arg Thr Val Ile Ile Gly | |
| 211 | 145 150 155 160 | |
| 212 | gag caa gag cac cgt ata gac ctg cac atg atc cgg cct tac atg aaa | 528 |
| 213 | Glu Gln Glu His Arg Ile Asp Leu His Met Ile Arg Pro Tyr Met Lys | |
| 214 | 165 170 175 | |
| 215 | gtg gtc acc cac gga ggg tac tac ggc gaa ggc ctc aac gcc atc atc | 576 |
| 216 | Val Val Thr His Gly Gly Tyr Tyr Gly Glu Gly Leu Asn Ala Ile Ile | |
| 217 | 180 185 190 | |
| 218 | gtc ttc gca gcc tgc ttc ctt cca gac agc agc ctc ccc gac tac cac | 624 |
| 219 | Val Phe Ala Ala Cys Phe Leu Pro Asp Ser Ser Leu Pro Asp Tyr His | |
| 220 | 195 200 205 | |
| 221 | tac atc atg gag aac ctc ttc ctg tac gtc atc agc agc tta gag ctc | 672 |
| 222 | Tyr Ile Met Glu Asn Leu Phe Leu Tyr Val Ile Ser Ser Leu Glu Leu | |
| 223 | 210 215 220 | |
| 224 | ctg gtg gct gag gac tac atg atc gtg tac ctg aac ggt gcc acg ccc | 720 |
| 225 | Leu Val Ala Glu Asp Tyr Met Ile Val Tyr Leu Asn Gly Ala Thr Pro | |
| 226 | 225 230 235 240 | |
| 227 | cgg cgg agg atg cct gga atc ggc tgg ctg aag aag tgc tac cag atg | 768 |
| 228 | Arg Arg Arg Met Pro Gly Ile Gly Trp Leu Lys Lys Cys Tyr Gln Met | |
| 229 | 245 250 255 | |
| 230 | atc gac cgg agg ttg cgg aaa aac ctg aag tcc ttg atc atc gtc cac | 816 |
| 231 | Ile Asp Arg Arg Leu Arg Lys Asn Leu Lys Ser Leu Ile Ile Val His | |
| 232 | 260 265 270 | |
| 233 | ccc tgc tgg ttc att cgg act gtg ctg gcc atc tct cgc cct ttc atc | 864 |
| 234 | Pro Ser Trp Phe Ile Arg Thr Val Leu Ala Ile Ser Arg Pro Phe Ile | |
| 235 | 275 280 285 | |
| 236 | agc gtc aag ttc atc aac aag atc cag tac gtg cac agc ttg gaa gac | 912 |
| 237 | Ser Val Lys Phe Ile Asn Lys Ile Gln Tyr Val His Ser Leu Glu Asp | |
| 238 | 290 295 300 | |
| 239 | ctg gag caa ctc atc cct atg gaa cac gtc cag atc cca gac tgc gtc | 960 |
| 240 | Leu Glu Gln Leu Ile Pro Met Glu His Val Gln Ile Pro Asp Cys Val | |
| 241 | 305 310 315 320 | |
| 242 | ctg caa tac gaa gag gaa aga ctg aag gcc agg agg gag agc gcg agg | 1008 |
| 243 | Leu Gln Tyr Glu Glu Glu Arg Leu Lys Ala Arg Arg Glu Ser Ala Arg | |
| 244 | 325 330 335 | |

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